

- 3 (b) a pipe fitted in and disposed within said frame
4 concentrically, the difference between an inner diameter of the frame and an
5 outer diameter of the pipe is between 0 μm and 20 μm ;
- 6 (c) a sintered bearing fitted in and disposed within said frame
7 concentrically;
- 8 (d) a cylindrical magnet fixed on an outer wall of said sintered
9 bearing at an inner wall of said magnet; and
- 10 (e) a cylindrical coil facing said magnet via an annular space,
11 wherein said frame and said sintered bearing are welded at a fitted
12 section therebetween.
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- 1 9. (Amended) An apparatus comprising:
2 (a) a housing; and
3 (b) a motor disposed in said housing, said motor including:
4 (b-1) a cylindrical frame made of ferromagnetic material;
5 (b-2) a pipe fitted in and disposed within said frame
6 concentrically, the difference between an inner diameter of the frame and
7 an outer diameter of the pipe is between 0 μm and 20 μm ;
8 (b-3) a sintered bearing press-fitted into said pipe;
9 (b-4) a cylindrical magnet fixed on an outer wall of said pipe
10 at an inner wall of said magnet; and
11 (b-5) a cylindrical coil facing said magnet via an annular
12 space,
13 wherein said frame and said pipe are welded at a fitted section
14 therebetween.
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- 1 13. (Amended) An apparatus comprising:
2 (a) a housing;
3 (b) a motor disposed in said housing, said motor including:
4 (b-1) a cylindrical frame made of ferromagnetic material;

5 (b-2) a sintered bearing fitted in and disposed within said
6 frame concentrically;

7 (b-3) a cylindrical magnet fixed on an outer wall of said
8 sintered bearing at an inner wall of said magnet; and

9 (b-4) a cylindrical coil facing said magnet via an annular
10 space, and

11 (c) a pipe fitted in and disposed within said frame
12 concentrically, the difference between an inner diameter of the frame and an
13 outer diameter of the pipe is between 0 μm and 20 μm ,

14 wherein said frame and said sintered bearing are welded at a fitted
15 section therebetween.

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